

FILEID**LIBESTEMU

c 8

The diagram illustrates the conversion of a 10x10 grid of 'L' symbols into a 10x10 grid of 'S' symbols. It uses two intermediate stages: 'I' and 'S'.

- LL Stage:** The bottom-left corner contains 10 'L' symbols arranged in a 10x10 grid.
- II Stage:** The top-right corner shows a 10x10 grid of 'I' symbols, where each 'I' symbol represents a 2x2 block of 'L's from the previous stage.
- SS Stage:** The middle-right section shows a 10x10 grid of 'S' symbols, where each 'S' symbol represents a 2x2 block of 'I's from the previous stage.
- SSSS Stage:** The top-right corner shows a 10x10 grid of 'SS' symbols, where each 'SS' symbol represents a 2x2 block of 'S' symbols from the previous stage.
- Final S Stage:** The top-right corner shows a 10x10 grid of 'S' symbols, representing the final output.

0000 1 .TITLE LIB\$ESTEMU - Establish instruction emulator
0000 2 .IDENT /1-003/ ; File: LIB\$ESTEMU.MAR Edit: SBL1003
0000 3
0000 4
0000 5 *****
0000 6 *
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0000 24 *
0000 25 *
0000 26 *****
0000 27
0000 28
0000 29 ++
0000 30 : FACILITY: General Utility Library
0000 31 : ABSTRACT:
0000 32 :
0000 33 : Inclusion of this module in an image used to enable
0000 34 : LIB\$EMULATE, the optional instruction emulator, on the stack.
0000 35 : Since LIB\$EMULATE has been obsoleted by VAX/VMS automatic
0000 36 : emulation of floating instructions, this module is also obsolete.
0000 37 :
0000 38 : ENVIRONMENT: No executable code
0000 39 :
0000 40 : AUTHOR: Steven B. Lionel, CREATION DATE: 11-JAN-1980
0000 41 :
0000 42 : MODIFIED BY:
0000 43 :
0000 44 : 1-001 - Original. SBL 11-JAN-1980
0000 45 : 1-002 - Rename to LIB\$ESTEMU. Module is now in STARLET.OLB. SBL 17-Jan-1980
0000 46 : 1-003 - Make module a complete no-op, but it must remain for those who
0000 47 : explicitly link it in. SBL 23-May-1983
0000 48 :
0000 49 :--
0000 50 :
0000 51 .END : End of module LIB\$ESTEMU

```
+-----+
! Psect synopsis !
+-----+
```

PSECT name

```
-----  
. ABS .
```

Allocation

```
-----  
00000000 ( 0.) 00 ( 0.)
```

PSECT No.

```
NOPIC USR
```

```
CON ABS LCL NOSHR NOEXE NORD NOWRT NOVEC BYTE
```

```
+-----+
! Performance indicators !
+-----+
```

Phase

Phase	Page faults	CPU Time	Elapsed Time
Initialization	35	00:00:00.02	00:00:03.43
Command processing	130	00:00:00.35	00:00:02.96
Pass 1	51	00:00:00.12	00:00:02.63
Symbol table sort	0	00:00:00.00	00:00:00.00
Pass 2	26	00:00:00.10	00:00:00.91
Symbol table output	1	00:00:00.00	00:00:00.00
Psect synopsis output	2	00:00:00.01	00:00:00.01
Cross-reference output	0	00:00:00.00	00:00:00.00
Assembler run totals	248	00:00:00.62	00:00:09.96

The working set limit was 900 pages.

420 bytes (1 page) of virtual memory were used to buffer the intermediate code.

There were 0 pages of symbol table space allocated to hold 0 non-local and 0 local symbols.

51 source lines were read in Pass 1, producing 5 object records in Pass 2.

0 pages of virtual memory were used to define 0 macros.

```
+-----+
! Macro library statistics !
+-----+
```

Macro library name

```
-----  
$255$DUA2B:[SYSLIB]STARLET.MLB;2
```

Macros defined

```
-----  
0
```

0 GETS were required to define 0 macros.

There were no errors, warnings or information messages.

MACRO/ENABLE=SUPPRESSION/DISABLE=(GLOBAL,TRACEBACK)/LIS=LIS\$:LIBESTEMU/OBJ=OBJ\$:LIBESTEMU MSRC\$:LIBESTEMU/UPDATE=(ENH\$:LIBESTEMU)

0206 AH-BT13A-SE
VAX/VMS V4.0

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